



Summer - 2016

51213

**Second B.P.Th. (2012) Examination, Summer 2016
ELECTROTHERAPY**

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION – A & SECTION – B

- Instructions :**
- 1) Use **blue/black** ball point pen only.
 - 2) Do not write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full marks**.
 - 5) Draw diagrams **wherever** necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) **Use a common answerbook for all sections.**

SECTION – A

(50 Marks)

(SAQ)

1. Short answer question (**any five** out of six) : **(5×3= 15)**
 - a) Enumerate any three ions used in iontophoresis along with its polarity.
 - b) Write any six contraindications of SWD.
 - c) Define Cavitation and Acoustic streaming.
 - d) Uses of strong surged faradic current.
 - e) Three contraindications of IR.
 - f) Write characteristics of normal SD curve.
2. Short answer question (**any five** out of six) : **(5×7=35)**
 - a) Write principles, methods and uses of Biofeedback.
 - b) Describe Physiological and therapeutic effects of radiant heat.
 - c) Explain therapeutic effect of Ultrasound on inflammation and repair process.

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- d) Explain different methods of application of SWD.
- e) State the properties of LASER. Explain the mechanism of wound healing by application of LASER.
- f) Define T.E.N.S. Discuss physiological and therapeutic effect of T.E.N.S.

SECTION – B

(30 Marks)

(LAQ)

- 3. Long answer question (**any one** out of two) : **(1×15= 15)**
 - a) Define pain and explain pain pathway. Describe pain gate theory and descending pain suppressing system. **(7+8)**
 - b) Describe the Physiological and therapeutic effects of Faradic current. Add a note on principle and technique of application of Faradic Re-education. **(5+5+5)**
- 4. Long answer question (**any one** out of two) : **(1×15= 15)**
 - a) Define Interferential therapy and state its principle. Describe Physiological and Therapeutic effects of IFT. Describe technique and methods of application of IFT. **(3+6+6)**
 - b) Define and classify Actino therapy. Describe in detail the physiological effects of UVR and explain the procedure for test dose. **(4+7+4)**

SECTION – A

(SAQ)

(5×3= 15)

(5×3= 15)



51216

Second B.P.Th. (2012) Examination, Summer 2016

KINESIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION – A & SECTION – B

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 - 4) The number to the **right** indicates **full** marks.
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 - 7) **Use a common answerbook for all Sections.**

SECTION – A
(SAQ)

(50 Marks)

1. Short answer question (**any five** out of six) : (5x3=15)
 - a) Q angle.
 - b) Explain Length-Tension Relationship of muscle.
 - c) Define the terms osteokinetics and arthokinematics.
 - d) Enumerate classification of joints.
 - e) Movements of thorax.
 - f) Explain convex-concave rule.
2. Short answer question (**any five** out of six) : (5x7=35)
 - a) Explain Lumbar pelvic rhythm.
 - b) Describe factors affecting muscle function. Describe any two with an appropriate example.
 - c) Describe different types of grips and pinches of adult human hand.

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- d) Explain stress-strain curve.
- e) Describe the role of Popliteus muscle in knee joint.
- f) Differentiate between type I and type II muscle fibers.

SECTION – B

(30 Marks)

(LAQ)

- 3. Long answer question (**any one** out of two) : (1x15=15)
 - a) Enumerate Shoulder complex. Explain scapulo-humeral rhythm. Describe kinetic and kinematics of glenohumeral joint.
 - b) Discuss factors affecting stability and mobility of Elbow joint. Write a note on Carrying Angle.
- 4. Long answer question (**any one** out of two) : (1x15=15)
 - a) Describe determinants of gait. Discuss kinetics and kinematics of normal human gait in stance phase.
 - b) Describe the three different Lever Systems with appropriate example for each with respect to human body.



51214

**Second B.P.Th. (2012) Examination, Summer 2016
KINESIOTHERAPY**

Total Duration : Section A+B = 3 Hours

Total Marks : 80

SECTION – A & SECTION – B

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 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full** marks.
 - 5) Draw diagrams **wherever** necessary.
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 - 7) **Use a common answerbook for all Sections.**

**SECTION – A
(SAQ)**

(50 Marks)

1. Short answer question (**any five** out of six) : **(5x3=15)**
 - a) Contraindications of cervical traction.
 - b) Define 1 RM and 10 RM.
 - c) Passive Insufficiency of muscles.
 - d) Define Strength, Power and Endurance.
 - e) Contraindications to mobilization.
 - f) Diaphragmatic Breathing Exercise.

2. Short answer question (**any five** out of six) : **(5x7=35)**
 - a) Trick movement.
 - b) Principles of strength training.
 - c) Write factors affecting posture and physiological deviations of posture.
 - d) Discuss in brief the "Concave-Convex" rule for joint mobilization.
 - e) Static, Dynamic, and Ballistic Stretching with example of any one muscle.
 - f) Pursed lip breathing.

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SECTION – B
(LAQ)

(30 Marks)

3. Long answer question (**any one** out of two) : (1×15=15)

- a) Define contracture. Describe the different types of contractures. Describe the Hold-relax technique of active inhibition stretching. State the precautions for the same.
- b) Define coordination and write about physiology of coordination. describe Frankel's exercises.

4. Long answer question (**any one** out of two) : (1×15=15)

- a) What is postural drainage ? Write indications and contraindications of postural drainage. Write about manual techniques used in postural drainage.
- b) Write physiological effects and therapeutic uses of Hydrotherapy. Describe properties of water. Write contraindications of hydrotherapy.

51212

Second B.P.Th. (2012) Examination, Summer 2016
PATHOLOGY & MICROBIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION – A & SECTION – B

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 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full marks**.
 - 5) Draw diagrams **wherever** necessary.
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 - 7) **Use** a common answerbook for **all** sections.

SECTION – A
(Pathology)

(50 Marks)

1. Short answer question (**any five** out of six) : **(5x7=35)**
 - a) Define necrosis. Describe types of necrosis with examples of each.
 - b) Define and classify anaemia. Describe laboratory investigations of megaloblastic anaemia.
 - c) Write a note on myasthenia gravis.
 - d) Describe aetiopathogenesis and pathology of Rheumatoid Arthritis.
 - e) Describe fracture healing. Add a note on complications of fracture healing.
 - f) Define meningitis. Write organisms causing meningitis. Describe CSF findings in Pyogenic and Tuberculous meningitis.

2. Long answer question (**any one** out of two) : **(1x15=15)**
 - a) Define thrombosis. Describe aetiopathogenesis and morphology of thrombus. Add a note on its complications.
 - b) Define neoplasia. Write differences between benign and malignant tumors. Add a note on routes of spread of tumors.

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SECTION – B
(Microbiology)

(30 Marks)

3. Short answer question (**any three** out of four) : (3x5=15)
- a) Write a note on Autoimmunity.
 - b) Discuss laboratory diagnosis of Dermatophytosis.
 - c) Hydatid cyst.
 - d) Discuss pathogenesis and laboratory diagnosis of Hepatitis B infection.
4. Long answer question (**any one** out of two) : (1x15=15)
- a) Enumerate causative agents of sexually transmitted diseases and discuss laboratory diagnosis of syphilis.
 - b) Define sterilization and disinfection. Classify and enumerate methods of sterilization. Write a note on Autoclave.



51211

**Second B.P.T.H. (2012) Examination, Summer 2016
PHARMACOLOGY**

Total Duration : 2 Hours

Total Marks : 40

- Instructions :**
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 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full marks**.
 - 5) Draw diagrams **wherever** necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) **Use** a common answerbook for **all** sections.

1. Short answer question (**any five** out of six) : **(5x3=15)**
 - a) Mention three therapeutic uses and three adverse effects of Adrenaline.
 - b) Classify skeletal muscle relaxants. Write their two therapeutic uses and two adverse effects.
 - c) Describe mechanism of action and two therapeutic uses of Omeprazole.
 - d) Classify drugs used in the treatment of Parkinsons disease. Mention the advantages of Ropinirole over levodopa in the treatment of Parkinsonism.
 - e) Mention three therapeutic uses and three adverse effects of Glucocorticoids.
 - f) Define bio-availability. Mention four factors affecting bio-availability.

2. Short answer question (**any five** out of six) : **(5x5=25)**
 - a) Describe mechanism of action, four therapeutic uses and three adverse effects of Aspirin.
 - b) Enumerate various parenteral routes of drug administration. Mention three advantages and three disadvantages of Intravenous route.
 - c) Enumerate beta- blockers. Describe mechanism of action, three therapeutic uses and two adverse effects of beta-blockers.
 - d) Classify Penicillins. Mention mechanism of action, three therapeutic uses and two adverse effects of Penicillin.
 - e) Enumerate three Atropine substitutes along with their uses, giving suitable examples.
 - f) Describe mechanism of action, two therapeutic uses and two adverse effects of Insulin. Enumerate various Insulin analogues.



51215

**Second B.P.Th. (2012) Examination, Summer 2016
PSYCHIATRY (Including Psychology)**

Duration : 2 Hours

Total Marks : 40

Instructions: 1) Use **blue/black** ball point pen only.

2) Do not write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.

3) **All** questions are **compulsory**.

4) The number to the **right** indicates **full** marks.

5) Draw diagrams **wherever** necessary.

6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.

7) **Use** a common answerbook for **all** sections.

1, Short answer question (**any five** out of six) :

(5×3=15)

- a) Define stress and describe its effects on body and mind.
- b) Define Psychology and discuss 'Behavioristic' and 'Gestalt' schools of Psychology.
- c) Discuss the concepts of "Unconditioned Stimulus", "Unconditioned Response", "Conditioned Stimulus" & "Conditioned Response".
- d) Long term Memory.
- e) Discuss Freud's psycho sexual stages of personality.
- f) Define Perception. Explain laws of perception.

2, Short answer question (**any five** out of six) :

(5×5=25)

- a) Discuss clinical features of Mood disorder.
 - b) Define delusion. Discuss various types of delusions.
 - c) Clinical features of Dementia.
 - d) Attention deficit hyperactivity disorder.
 - e) Electroconvulsive therapy.
 - f) Discuss Somatisation disorder.
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